

**WEST**

Generate Collection

L1: Entry 18 of 24

File: DWPI

Jan 15, 1988

DERWENT-ACC-NO: 1989-212808

DERWENT-WEEK: 198929

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TITLE: Heat recovery device - has two-stage contact heat exchanger in water system between top-up tube and circuit

INVENTOR: KHUDENKO, A A; MOISEEV, V I ; PRESICH, G A

PATENT-ASSIGNEE:

ASSIGNEE

CODE

BUILD SANITARY ENG

BUILR

KIEV CONS ENG INST

KICSR

PRIORITY-DATA: 1987SU-4228010 (April 15, 1987)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

SU 1451437 A

January 15, 1988

002

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

SU 1451437A

April 15, 1987

1987SU-4228010

INT-CL (IPC): F22B 1/18; F28C 3/06

ABSTRACTED-PUB-NO: SU 1451437A

BASIC-ABSTRACT:

The device comprises a vertical gas duct (2) connected at the bottom to a heating gas supply (1) and an auxiliary spray (8) heat exchanger (3), main spray (4) and moisture collector (5). All these are inside the gas duct, one under the other. The moisture collector is connected to the main spray to form a closed circuit (6), and to the auxiliary spray via the heating side of a surface heat exchanger (11) to form another circuit (9). The heated side of the heat exchanger (11) is in parallel with the first heat exchanger (3).

The device also includes a two-stage contact heat exchanger (13) included in the water system between the top-up tube (7) and the circuit (6); and in the gas system, between the first stage (14) as the water flows, after the vertical gas duct, and the second stage (15), in parallel with the sector of it containing the spray. The preheating of the top-up water is supplied to the spray sends more heat to the first heat exchanger and reduces the exhaust gas temp.

ADVANTAGE - The device makes fuller use of the exhaust gas heat. Bu.2/15.1.89

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: HEAT RECOVER DEVICE TWO-STAGE CONTACT HEAT EXCHANGE WATER SYSTEM TOP UP TUBE CIRCUIT

DERWENT-CLASS: Q72 Q78

**WEST****End of Result Set**

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L3: Entry 1 of 1

File: DWPI

Sep 7, 1990

DERWENT-ACC-NO: 1991-221176

DERWENT-WEEK: 199130

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TITLE: Animal husbandry premises air conditioning plant - has main spray chamber with by=pass channel and outlet connected by adjustable flap to outlet of inflow air duct

INVENTOR: ADAMENKO, A I; OLEINIK, A K

PATENT-ASSIGNEE:

ASSIGNEE

VNIIZHIVMASH LIVEST

CODE

VNIIR

PRIORITY-DATA: 1988SU-4499531 (November 1, 1988)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

SU 1590863 A

September 7, 1990

000

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

SU 1590863A

November 1, 1988

1988SU-4499531

INT-CL (IPC): F24F 3/14

ABSTRACTED-PUB-NO: SU 1590863A

BASIC-ABSTRACT:

The plant comprises an inflow air duct (1) with fan (2), heat exchanger (3) and spray chamber (4) with sprays (5) and sump (6), connected by an outlet (7) to atmosphere, and a draught air duct (8) with fan (9) and auxiliary spray chamber (10) with sprays (11) and sump (12). The heat pump is in the form of an evaporator (13), compressor (14), condenser (15) in a through-flow cavity (16), and an adjustable valve (17).

The sump of the auxiliary chamber is connected via the condenser flow cavity by switchable elements (19-25) to the heat exchanger and sprays of the main spray chamber in parallel. The sprays and sump of the auxiliary chamber can be cut out. The main spray chamber has a bypass channel (29). It is connected by an outlet (7) to the outlet of the inflow air duct by an adjustable flap (30), and is in the inflow air duct after the heat exchanger as the air flows.

ADVANTAGE - Is more versatile, makes more use of draught air heat. Bul. 33/7.9.90

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: ANIMAL HUSBANDRY PREMISES AIR CONDITION PLANT MAIN SPRAY CHAMBER  
BY=PASS CHANNEL OUTLET CONNECT ADJUST FLAP OUTLET INFLOW AIR DUCT

DERWENT-CLASS: Q74

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1991-168746